

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (Currently Amended) A method for displaying digital grey scale images at a desired tonal value on ~~the~~ a display screen of a display device, ~~characterized in that, in the method, the operator pre-selects manually, for example on the basis of the method comprising:~~

~~pre-selecting based on an image visible on a display screen of a display device, a grey scale level of his/her desire of an operator;~~

~~the storing values consistent therewith being stored with the grey scale level of desire in a memory associated with a the display device to form an operator-specific target grey scale level;~~

~~whereby, when the operator picks up a new image for examination, accessing the memory is accessed to retrieve therefrom the information regarding a the operator-specific target grey scale level and relevant to the present operator when the operator picks up a new image for examination;~~

~~said information being used for automatically calculating an individual transformation function relevant to the present new image and the image is based on the information; and~~

~~automatically adjusted adjusting the new image to the operator-specific target grey scale level based on the individual transformation function.~~

Claim 2 (Currently Amended) A method as set forth in claim 1, ~~characterized in that wherein the image-specific individual~~ individual transformation function is calculated ~~in the method by first selecting a desired initial function to be parametered, the parameters of which are then optimized by means of an appropriate optimization algorithm for reaching a the operator-specific target grey scale level.~~

Claim 3 (Currently Amended) A method as set forth in claim 2, ~~characterized in that wherein~~ the transformation function comprises an exponential function.

Claim 4 (Currently Amended) A method as set forth in claim 2, ~~characterized in that~~wherein the transformation function produces an S-graph.

Claim 5 (Currently Amended) A method as set forth in claim 2, ~~characterized in that~~wherein the transformation function produces a multi-segment graph.

Claim 6 (Currently Amended) A method for displaying digital grey scale images at a tonal value on ~~the~~a display screen of a display device, ~~characterized in that~~the method comprising:
retaining~~the image brightness is retained~~ automatically by ~~such a~~ control of contrast, ~~that~~wherein each value of contrast control results in ~~such an~~ automated selection of the brightness value ~~that as little as possible~~wherein a minimum amount of the image area is visible in black or white while ~~as much as possible~~a maximum amount of the image area is visible in ~~various~~ tones of grey.

Claim 7 (Currently Amended) A display device for displaying digital grey scale images at a desired tonal value on ~~the~~a display screen of a display device, ~~characterized in that the device comprises~~comprising:

means ~~(300)~~ for manually adjusting ~~the~~a grey scale level of an image to ~~an operator-specific~~an operator-specific target grey scale level desired by ~~the~~an operator;

memory means ~~(302)~~ for storing therein values relevant to the operator-specific target grey scale level; and

computing means ~~(310)~~ for calculating ~~operator-specifically~~ an individual image-specific transformation function for each new image to be examined by the operator.